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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

| APPLICATION NO.   | FILING DATE    | FIRST NAMED INVENTOR  | ATTORNEY DOCKET NO.     | CONFIRMATION NO.        |  |
|---|----------------|-----------------------|-------------------------|-------------------------|--|
| 09/782,782  | 02/13/2001     | Christopher Cavallaro | B01-07                  | 2005                    |  |
| 7.  | 590 09/10/2002 |                       |                         |                         |  |
| Troy R. Lester, Esq. Acushnet Company 333 Bridge Street |                |                       | EXAMI                   | EXAMINER                |  |
|   |                |                       | HUNTER, ALVIN A         |                         |  |
| Fairhaven, MA   |                |                       | 1                       | ÷                       |  |
|   |                |                       | ART UNIT                | PAPER NUMBER            |  |
|   |                |                       | 3711                    | 3711                    |  |
|   |                |                       | DATE MAILED: 09/10/2002 | DATE MAILED: 09/10/2002 |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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|   |  | Application No.                  | Applicant(s)   |  |  |  |
|---|--|----------------------------------|--|--|--|--|
| Office Action Summary   |  | 09/782,782                       | CAVALLARO ET AL.                                     |  |  |  |
|   |  | Examiner                         | Art Unit   |  |  |  |
|   |  | Alvin A. Hunter                  | 3711   |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  |  |                                  |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status |  |                                  |  |  |  |  |
| 1)🖂   | Responsive to communication(s) filed on 18 J   | <u>une 2002</u> .                |  |  |  |  |
| 2a)⊠  | This action is <b>FINAL</b> . 2b) ☐ Thi  | s action is non-final.           |  |  |  |  |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims   |  |                                  |  |  |  |  |
| 4)⊠   | Claim(s) 1-16 and 18-28 is/are pending in the  | application.                     |  |  |  |  |
|   | 4a) Of the above claim(s) is/are withdraw  | ••                               |  |  |  |  |
| 5)□   | Claim(s) is/are allowed.   |                                  |  |  |  |  |
| ·   | Claim(s) <u>1-16 and 18-28</u> is/are rejected.  |                                  |  |  |  |  |
| ·   | Claim(s) is/are objected to.   |                                  |  |  |  |  |
| 8) Claim(s) are subject to restriction and/or election requirement.  Application Papers   |  |                                  |  |  |  |  |
| _   | The specification is objected to by the Examiner   |                                  |  |  |  |  |
| 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.   |  |                                  |  |  |  |  |
| ,—  | Applicant may not request that any objection to the  | •                                |  |  |  |  |
| 11)   |  | is: a) ☐ approved b) ☐ disapprov | • •  |  |  |  |
|   | If approved, corrected drawings are required in repl   |                                  | •  |  |  |  |
| 12) The oath or declaration is objected to by the Examiner.   |  |                                  |  |  |  |  |
| Priority under 35 U.S.C. §§ 119 and 120   |  |                                  |  |  |  |  |
| 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).   |  |                                  |  |  |  |  |
| a) ☐ All b) ☐ Some * c) ☐ None of:  |  |                                  |  |  |  |  |
| 1.☐ Certified copies of the priority documents have been received.  |  |                                  |  |  |  |  |
|   | 2. Certified copies of the priority documents have been received in Application No   |                                  |  |  |  |  |
| <ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>   |  |                                  |  |  |  |  |
| 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  |  |                                  |  |  |  |  |
| <ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>  |  |                                  |  |  |  |  |
| Attachment(s)   |  |                                  |  |  |  |  |
| 2) 🔲 Notic  | e of References Cited (PTO-892)<br>e of Draftsperson's Patent Drawing Review (PTO-948)<br>nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>1</u> . |                                  | (PTO-413) Paper No(s)<br>atent Application (PTO-152) |  |  |  |

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#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-16 and 18-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi et al. (USPN 6248027).

Hayashi et al. discloses a multi-piece golf ball, having improved flight distance, hitting feel, and controllability, comprising a solid inner core, outer core, inner cover, and outer cover (See Abstract). The inner core has a diameter of 20 to 37mm, a distortion of 3 to 8mm under a load of 100kg, a Shore D hardness of 20 to 50, and a specific gravity of 1.0 to 1.7 (See Figure 1 and Column 4, lines 1 through 67). The outer core has a diameter of 32 to 41mm, a Shore D hardness of 40 to 70, and a specific gravity of 0.9 to 1.3 (See Figure 1 and Column 5, lines 1 through 35). The inner cover has a gage of 0.5 to 3mm and a Shore D hardness of at least 55 (See Figure 1). The outer cover has a gage of 0.3 to 3mm and a Shore D hardness of 35 to 53 (See Figure 1). With the inner cover having a gage of 0.3 to 3mm, the diameter of the inner layer would be from 33 to 47mm. The golf ball's moment of inertia satisfies the equation (1.52\*ball weight+12.79), in which the ball weights 44.5 to 45.93 grams (See Abstract). This gives the golf ball a moment of inertia of at least 80.43 g•cm². Hayashi et al. does not

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disclose an outer cover having a hardness greater than about 56 Shore D. A harder inner layer and softer cover layer is also taught by the applicant within Table II of the present application for the prior art ball labeled as "Control". Furthermore, Hayashi et al. notes that having a hard inner cover and soft outer cover improves the spin performance upon approach shots and improves the hitting feel, and maintains satisfactory flight performance (See Column 5, lines 63 through 67). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have the inner cover hardness higher that the outer cover hardness of any amount in difference in order to optimize the spin performance, hitting feel, and flight performance.

## Response to Arguments

Applicant's arguments with respect to claims 1-28 have been considered but are most in view of the new ground(s) of rejection.

### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin A. Hunter whose telephone number is 703-306-5693. The examiner can normally be reached on Monday through Friday from 7:30AM to 4:00PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Sewell, can be reached on (703) 308-2126. The fax phone number for the organization where this application or proceeding is assigned is 703-308-7768.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

Paul T. Sewell
Supervisory Patent Examiner
Group 3700

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